



RECEIVED  
5775 Morehouse Drive CENTRAL FAX CENTER  
San Diego, CA 92121  
Fax: (858) 658-2502 SEP 22 2005

## *Facsimile Transmittal*

**DATE:** September 22, 2005  
**TO:** Commissioner for Patents  
**ATTN:** Decision and Certificate of Correction  
Branch of the Patent Issue Division

**FAX NUMBER:** (703) 746-4060

**FROM:** Jae-Hee Choi, Reg. No. 45,288, Attorney for Applicant  
Direct Telephone No.: (858) 651-5469  
Attorney Docket No.: 990485

**Total Number of Pages Sent:** 4 (including this transmittal cover sheet)

\*\*\*\*\*

**FILING BY FACSIMILE:**

ATTORNEY DOCKET NO.: 990485 JHC/KL

**ENCLOSED ARE:**

1. Letter to make error of record (2 pages)
2. Marked up copy of page 1 of Patent No. 6,944,765 (1 page)

**APPLICANT:** Rose et al.

**ASSIGNEE:** QUALCOMM Incorporated

**SERIAL NO.:** 09/468,557

**PATENT NO.:** 6,944,765

**ISSUED:** September 13, 2005

**FOR:** METHOD OF AUTHENTICATING ANONYMOUS USERS WHILE REDUCING POTENTIAL FOR  
"MIDDLEMAN" FRAUD

\*\*\*\*\*

Please contact Kate Lane at (858) 658-2047 if all pages do not transmit.

**Special Instructions:** THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL TO WHOM IT IS ADDRESSED AND CONTAINS INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately. Thank you!

Attorney Docket No. 990485

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

RECEIVED  
CENTRAL FAX CENTER

SEP 22 2005

Patent No. 6,944,765

For: METHOD OF AUTHENTICATING  
ANONYMOUS USERS WHILE  
REDUCING POTENTIAL FOR  
"MIDDLEMAN" FRAUD

Issued: September 13, 2005

) Assignee: Qualcomm, Incorporated

LETTER TO MAKE ERROR OF RECORD

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

An error of a typographical nature has occurred through the fault of the U.S. Patent and Trademark Office as more fully described below.

---

**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))**

I hereby certify that this correspondence is, on the date shown below, being:

**MAILING** deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 onDepositor's Name: \_\_\_\_\_  
(type or print name)

Signature: \_\_\_\_\_

**FACSIMILE** transmitted by facsimile to the Patent and Trademark Office on September 22, 2005Depositor's Name: Kate Lane  
(type or print name)Signature: Kate Lane

Attorney Docket No. 990485

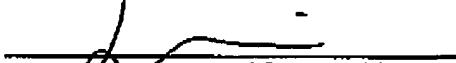
The exact page and line number where the error occurs in the issued patent are:  
At page 1, first column, (54), in the title, please replace "AUTHENTICATION" with  
--AUTHENTICATING--. The correct title should read as follows:

**METHOD FOR AUTHENTICATING ANONYMOUS USERS  
WHILE REDUCING POTENTIAL FOR "MIDDLEMAN" FRAUD**

According to 37 C.F.R 1.322 there is no fee for making this error of record. If, however, it is determined that fees are owed, Applicants hereby authorize that such fees be charged to Deposit Account No. 17-0026.

Respectfully submitted,

Dated: September 22, 2005

By: 

Jae-Hee Choi, Reg. No. 45,288  
(858) 658-6892

QUALCOMM Incorporated  
Attn: Patent Department  
5775 Morehouse Drive  
San Diego, California 92121-1714  
Telephone: (858) 658-5787  
Facsimile: (858) 658-2502



(12) **United States Patent**  
Rose et al.

(10) Patent No.: **US 6,944,765 B1**  
(45) Date of Patent: **Sep. 13, 2005**

*Authenticating*

(54) **METHOD OF AUTHENTICATION ANONYMOUS USERS WHILE REDUCING POTENTIAL FOR "MIDDLEMAN" FRAUD**

6,148,083 A • 11/2000 Fieras et al. .... 380/255  
6,151,676 A • 11/2000 Cuccia et al. .... 713/176  
6,301,660 B1 • 10/2001 Benson .... 713/165

(75) Inventors: **Gregory G. Rose, San Diego, CA (US); Philip M. Hawkes, Burwood (AU)**

OTHER PUBLICATIONS

(73) Assignee: **Qualcomm, Inc., San Diego, CA (US)**

Menezes, Alfred, Paul van Oorschot, and Scott Vanstone, *The Handbook of Applied Cryptography*, 1996, pp. 402-403.\*

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

Merkle, Ralph C. "Secure Communications Over Insecure Channels" *Communications of the ACM* 21(4): 294-299 (1978).

(21) Appl. No.: **09/468,557**

Rivest, et al. "Time-Lock Puzzles and Timed-Release Crypto" pp. 1-8 (Feb. 21, 1996).

(22) Filed: **Dec. 21, 1999**

Back, Adam "Hash Cash—A Partial Hash Collision Based Postage Scheme" pp. 1-5. (printed from website [www-cypherspace.org/~adam/](http://www-cypherspace.org/~adam/) on Apr. 25, 2000).

(51) Int. Cl. 7 ..... **H04L 9/00**

\* cited by examiner

(52) U.S. Cl. ..... **713/181; 713/188; 713/152; 713/153; 713/168; 380/30; 380/201; 380/251; 380/262; 705/51; 705/57; 705/67**

Primary Examiner—Andrew Caldwell

(58) Field of Search ..... **713/181, 188, 713/152, 153, 168; 380/30, 251, 201, 262; 705/51, 67, 57**

Assistant Examiner—Paul Callahan

(74) Attorney, Agent, or Firm—Phil Wadsworth; Sandip (Micky) S. Minhas; Jae-Hee Choi

(56) **References Cited**

(57) **ABSTRACT**

**U.S. PATENT DOCUMENTS**

5,241,599 A • 8/1993 Bellovin et al. .... 713/171  
5,311,596 A • 5/1994 Scott et al. .... 380/33  
5,724,425 A • 3/1998 Chang et al. .... 705/52  
5,768,382 A • 6/1998 Schneier et al. .... 380/251  
5,796,952 A • 8/1998 Davis et al. .... 709/224  
5,841,870 A • 11/1998 Fieras et al. .... 713/156  
5,917,615 A • 6/1999 Reifman et al. .... 358/468  
5,970,143 A • 10/1999 Schneier et al. .... 713/181  
6,141,010 A • 10/2000 Hoyle .... 345/854

A method of authenticating anonymous users while reducing potential for "middleman" fraud includes the step of constructing a puzzle in response to information received from a software user. The puzzle includes the received information. The puzzle is sent to the user by a software provider. The user solves the puzzle and returns the solution to the provider. The puzzle includes a portion of a value derived from an encrypted "cookie" and an exponentiation of the derived value. The cookie includes information about the user.

**3 Claims, 1 Drawing Sheet**

